

REPUBLIC OF FRANCE
MINISTRY
OF INDUSTRY AND TRADE
INDUSTRIAL PROPERTY DIVISION

P A T E N T

Gr. 12.— Cl. 2.

#1,061,253

<Stamp:> Prüfstoff

Kl. 42 h

Gr. 31/03

Method of fitting additional lenses onto eyeglass frames.

Mr. René Tardy, resident of France (Seine-Inférieure).

Applied for on August 5, 1952, at 3:37 p.m. in Paris.

Issued on November 25, 1953. — Published on April 12, 1954.

It has been previously proposed to fit eyeglasses with additional, easily detachable lenses, for example protective or corrective lenses, which would be attached on top of the eyeglass lenses.

This invention is a resistant, flexible and rapid method of attachment of this type of adapter to any kind of eyeglass frames.

According to the invention, these lenses, or the rims supporting them, are attached by any appropriate method onto a flexible metallic strip, featuring a pin toward the middle which is bent backward twice, with the end turned up or down at a right angle, and laterally, near the hinges of the side-pieces of the eyeglasses, two adjustable hooks of variable length, bent twice at right angles in the opposite direction to that of the pin.

This strip, with its glass or plastic lenses, is set onto any type of eyeglass frames, by fitting the central pin on or under the bridge, and lateral pins respectively under or on the tenons of the frames.

First a curve is made in the strip, so that it may be bent slightly when fitted and its natural elastic tension may hold it in place on the frames.

The pins and hooks are of variable length depending on the thickness of the lenses, rims or frames; they are adjustable, e.g.: by twisting.

Two methods of producing the adapter according to this invention will be described in more detail below, in reference to the attached design, in which:

Figure 1 is a frontal view of an adapter fitted on eyeglasses, shown in dotted lines;

Figure 2 is a cross-section along II-II of Figure 1;

Figure 3 is a similar section along III-III of Figure 1;

Figure 4 is a frontal view of an adapter placed on other eyeglass frames;

Figures 5 and 6 are sections along V-V and VI-VI of Figure 4, respectively.

The adapter shown in figures 1, 2 and 3 is very simply composed of a continuous filiform metallic strip 1, bent in such a way as to conform to the arch of the eyebrows and the nose; in the middle of the bridge of this flexible metallic strip is a pin 2 bent backward twice at right angles and open toward the bottom, while the ends are equipped with hooks 3, also bent twice at right angles, but open toward the top.

The strip is curved so as to have a more pronounced arch than that of the primary supporting eyeglass frames 4, to which the adapter is to be attached: thus, when the hooks 3 are successively fitted under the tenons 5 of the frames 4 and the pin 2 on the bridge 6 of these frames, the strip is held in place by tension and the additional lenses 7, properly attached to the strip 1, move firmly into place in front of the lenses of the frames 4.

The adapter can very easily be removed by performing the operation in reverse.

If the eyeglass frames are frosted or thinly rimmed, as shown in figures 4, 5 and 6, the strip 1 has a central pin 2 open toward the bottom, and hooks at the ends 3 open toward the top; mounting this adapter on the eyeglass frames, consisting of a simple front strip for example, can be held in place under tension as in the previous case, by inserting the pin 2 under the bridge 6 of the frames 8, and the hooks 3 on the tenons 5 of the frames 8; in this case the adapter's strip is curved sufficiently to hold it in place by top-to-bottom tension, which is the opposite of what occurs with Figure 1.

The shape of the pin 2 and the hooks 3 varies according to the eyeglass frames for which the adapter is intended: in a preferred method of producing the invention, the pin and hooks are made of metallic wire, easily sized by simple cutting, and adjusted by twisting.

With this style of adapter, there is no rubbing of the lenses on contact, and it will not cause scratching.

SUMMARY

1: Method of producing an adapter or additional panel for any type of eyeglass frames, which essentially consists of a continuous flexible metallic strip, and takes on the shape of the upper part of the frames for which it is intended, supporting the additional lenses by any proper means, and featuring, in the middle of the bridge, a pin bent backward twice at right angles and open toward the top or bottom, and also featuring, on the lateral ends,

hooks bent twice at right angles, open toward the bottom or the top respectively, with this strip featuring a more pronounced vertical or lateral curve than that of the upper part of the eyeglass frames on which it is held by the tension of the pin inserted on or under the bridge of the frames, with hooks under or on, respectively, the frames' lateral tenons.

2: The pin and the hooks are preferably made of metallic wire which can be cut to the desired length and adjusted by twisting.

René Tardy.

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